

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	253	((BRUNETTO) near2 (MARTORANA)).INV. ((DANIELE) near2 (PULLINI)).INV. ((PIERO) near2 (PERLO)).INV.	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:28
L2	16	("5463516" "5773156" "2002043974" "2002190713" "2001028872" "6353317" "6103406" "2002114974").pn.	US_PGPUB; USPAT; USOOR; DERWENT	OR	ON	2010/03/24 18:28
L3	8965	spin?valve or (spin adj valve)	US_PGPUB; USPAT; USOOR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:28
L4	7771	(free and (pinned or pinning or fixed or fixing)) adj layer	US_PGPUB; USPAT; USOOR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:28
L5	4097	L3 L4	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:28
L6	8965	spin?valve or (spin adj valve)	US_PGPUB; USPAT; USOOR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:28
L7	7771	(free and (pinned or pinning or fixed or fixing)) adj layer	US_PGPUB; USPAT; USOOR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:28
L8	4097	L6 L7	US_PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:28

L9	9382	(257/002 257/421 257/422 257/423 257/424 257/425 257/426 257/427 360/324.2 438/900 438/3 365/158 257/003 257/004 257/005).ccls. (257/30 360/324.1 365/158). COLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:28
L10	5475	(porous or pore) magnet\$3 tunnel\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:29
L11	1428	L10 ( (free ) same (pin \$3 or fix\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:29
L12	29	magnet\$3 ((porous or pore) same tunnel\$3) L11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:29
L13	29	magnet\$3 ((porous or pore) same tunnel\$3) L11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:29
L14	217	(nano?porous or nanoporous) magnet\$3 tunnel\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/03/24 18:29
L15	13	L14( (free ) same (pin \$3 or fix\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/03/24 18:29
L16	370	((nano adj (porous or pore)) or nano\$por\$3 or nanopor\$3) magnet \$3 tunnel\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/03/24 18:29

L17	26	L16 ( ( free ) same (pin \$3 or fix\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/03/24 18:29
L18	13	L17 not L15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/03/24 18:29
L19	34687	(porous or pore) with silicon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:30
L20	9970	(porous or pore) adj silicon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:30
L21	9691	porous adj silicon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:30
L22	821	tunnel\$3 21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:30
L23	2516254	ferromagnet\$3 or ferro \$magnet\$3 or magnet \$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/24 18:31
L24	289	tunnel\$3 21 L23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/03/24 18:31
L25	3	((nano?porous or nanoporous) adj silicon) magnet\$3 tunnel\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/03/24 18:32

S1	24	(US-20060102969-\$ or US-20060128038-\$ or US-20060180839-\$ or US-20030179071-\$ or US-20060003185-\$ or US-20060012926-\$ or US-20060093862-\$ or US-20060098354-\$ or US-20060221510-\$ or US-20060255383-\$). did. (US-20040041183-\$ or US-20060255383-\$ or US-20060098354-\$ or US-20060093862-\$ or US-20060012926-\$ or US-20060102969-\$ or US-20060221510-\$ or US-20060128038-\$ or US-20060003185-\$ or US-20030179071-\$ or US-20060180839-\$ or US-20040136232-\$). did. or (US-6097625-\$ or US-6841395-\$ or US-684(US-5565695-\$ or US-5432373-\$ or US-6297987-\$ or US-5515314-\$ or US-5652445-\$)". did.5038-"\$). did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/02/04 11:10
S2	38	(US-20060102969-\$ or US-20060128038-\$ or US-20060180839-\$ or US-20030179071-\$ or US-20060003185-\$ or US-20060012926-\$ or US-20060093862-\$ or US-20060098354-\$ or US-20060221510-\$ or US-20060255383-\$). did. (US-20040041183-\$ or US-20060255383-\$ or US-20060098354-\$ or US-20060093862-\$ or US-20060012926-\$ or US-20060102969-\$ or US-20060221510-\$ or US-20060128038-\$ or US-20060003185-\$ or US-20030179071-\$ or US-20060180839-\$ or US-20040136232-\$). did. or (US-6097625-\$ or US-6841395-\$ or US-684(US-5565695-\$ or US-5432373-\$ or US-	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 11:10

		6297987-\$ or US-5515314-\$ or US-5652445-\$)". did.5038- "\$).did.				
S3	11343	antiferromagnet\$3 or antiferro\$magnet\$3 or anti\$ferromagnet\$3 or (anti adj ferro\$magnet \$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 11:10
S4	2153752	ferromagnet\$3 or ferro \$magnet\$3 or magnet \$3	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 11:10
S6	5542	(257/002 257/421 257/422 257/423 257/424 257/425 257/426 257/427 360/324.2 438/900 365/158 257/003 257/004 257/005).ccls. (257/30 360/324.1 365/158).CCLS.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/23 13:31
S8	8120	(257/002 257/421 257/422 257/423 257/424 257/425 257/426 257/427 360/324.2 438/900 438/3 365/158 257/003 257/004 257/005).ccls. (257/30 360/324.1 365/158). CCLS.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/25 14:51
S9	2	"US 20060216836"	US_PGPUB; USPAT; USOCR; DERWENT	AND	ON	2008/08/25 14:51
S10	241	((BRUNETTO) near2 (MARTORANA)).INV. ((DANIELE) near2 (PULLINI)).INV. ((PIERO) near2 (PERLO)).INV.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/25 14:52
S11	16	("5463516" "5773156" "2002043974" "2002190713" "2001028872" "6353317" "6103406" "2002114974").pn.	US_PGPUB; USPAT; USOCR; DERWENT	OR	ON	2008/08/25 16:07
S12	7921	spin?valve or (spin adj valve)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/25 16:11

S13	6212	(free and (pinned or pinning or fixed or fixing)) adj layer	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/25 16:11
S14	3456	S12 S13	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/08/25 16:12
S15	7923	spin?valve or (spin adj valve)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/26 13:48
S16	6216	(free and (pinned or pinning or fixed or fixing)) adj layer	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/26 13:48
S17	3458	S15 S16	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/08/26 13:48
S18	16	("5463516" "5773156" "2002043974" "2002190713" "2001028872" "6353317" "6103406" "2002114974").pn.	US_PGPUB; USPAT; USOCR; DERWENT	OR	ON	2008/08/26 13:48
S19	241	((BRUNETTO) near2 (MARTORANA)).INV. ((DANIELE) near2 (PULLINI)).INV. ((PIERO) near2 (PERLO)).INV.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/26 13:48
S20	0	(nanoparticle nano? particle (nano adj particle) nanowire nano?wire (nano adj wire) nanotubes nano? tube (nano adj tube)) and S17	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/08/26 13:50
S21	64	(nanoparticle nano? particle (nano adj particle) nanowire nano?wire (nano adj wire) nanotubes nano? tube (nano adj tube)) and S17	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/26 13:50

S22	1	S18 S16	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/08/26 17:01
S23	24	(US-20060102969-\$ or US-20060128038-\$ or US-20060180839-\$ or US-20030179071-\$ or US-20060003185-\$ or US-20060012926-\$ or US-20060093862-\$ or US-20060098354-\$ or US-20060221510-\$ or US-20060255383-\$). did. (US-20040041183-\$ or US-20060255383-\$ or US-20060098354-\$ or US-20060093862-\$ or US-20060012926-\$ or US-20060102969-\$ or US-20060221510-\$ or US-20060128038-\$ or US-20060003185-\$ or US-20030179071-\$ or US-20060180839-\$ or US-20040136232-\$).did. or (US-6097625-\$ or US-6841395-\$ or US-684(US-5565695-\$ or US-5432373-\$ or US-6297987-\$ or US-5515314-\$ or US-5652445-\$). did.5038-"\$).did.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/03/25 18:39
S24	38	(US-20060102969-\$ or US-20060128038-\$ or US-20060180839-\$ or US-20030179071-\$ or US-20060003185-\$ or US-20060012926-\$ or US-20060093862-\$ or US-20060098354-\$ or US-20060221510-\$ or US-20060255383-\$). did. (US-20040041183-\$ or US-20060255383-\$ or US-20060098354-\$ or US-20060093862-\$ or US-20060012926-\$ or US-20060102969-\$ or US-20060221510-\$ or US-20060128038-\$ or US-20060003185-\$	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39

		\$ or US-20030179071-\$ or US-20060180839-\$ or US-20040136232-\$).did. or (US-6097625-\$ or US-6841395-\$ or US-684(US-5565695-\$ or US-5432373-\$ or US-6297987-\$ or US-5515314-\$ or US-5652445-\$)". did.5038- "\$).did.				
S25	13165	antiferromagnet\$3 or antiferro\$magnet\$3 or anti\$ferromagnet\$3 or (anti adj ferro\$magnet \$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S26	2343469	ferromagnet\$3 or ferro \$magnet\$3 or magnet \$3	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S27	6034	(257/002 257/421 257/422 257/423 257/424 257/425 257/426 257/427 360/324.2 438/900 365/158 257/003 257/004 257/005).ccls. (257/30 360/324.1 365/158).CCLS.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S28	8603	(257/002 257/421 257/422 257/423 257/424 257/425 257/426 257/427 360/324.2 438/900 438/3 365/158 257/003 257/004 257/005).ccls. (257/30 360/324.1 365/158).CCLS.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S29	2	"US 20060216836"	US_PGPUB; USPAT; USOCR; DERWENT	AND	ON	2009/03/25 18:39
S30	249	((BRUNETTO) near2 (MARTORANA)).INV. ((DANIELE) near2 (PULLINI)).INV. ((PIERO) near2 (PERLO)).INV.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39

S31	16	("5463516" "5773156" "2002043974" "2002190713" "2001028872" "6353317" "6103406" "2002114974").pn.	US_PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/03/25 18:39
S32	8317	spin?valve or (spin adj valve)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S33	6822	(free and (pinned or pinning or fixed or fixing)) adj layer	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S34	3717	S32 S33	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/03/25 18:39
S35	8317	spin?valve or (spin adj valve)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S36	6822	(free and (pinned or pinning or fixed or fixing)) adj layer	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S37	3717	S35 S36	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/03/25 18:39
S38	16	("5463516" "5773156" "2002043974" "2002190713" "2001028872" "6353317" "6103406" "2002114974").pn.	US_PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/03/25 18:39
S39	249	((BRUNETTO) near2 (MARTORANA)).INV. ((DANIELE) near2 (PULLINI)).INV. ((PIERO) near2 (PERLO)).INV.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39

S40	0	(nanoparticle nano? particle (nano adj particle) nanowire nano?wire (nano adj wire) nanotubes nano? tube (nano adj tube)) and S37	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/03/25 18:39
S41	76	(nanoparticle nano? particle (nano adj particle) nanowire nano?wire (nano adj wire) nanotubes nano? tube (nano adj tube)) and S37	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/25 18:39
S42	1	S38 S36	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/03/25 18:39
S43	1	(US-20060216836-\$). did.	US_PGPUB	AND	ON	2009/03/25 19:49
S44	1	S43 spacer "113" "133"	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/03/25 19:50
S45	284	nano?porous and tunnel \$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/08 16:28
S46	26	nano?porous same tunnel\$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/08 16:28
S47	3	nano?porous same tunnel\$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/08 16:31
S48	191	(nano?porous or nanoporous) magnet\$3 tunnel\$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:31

S50	118	S48 (free ) and (pin\$3 or fix\$3)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:32
S51	6	S48( (free ) same (pin \$3 or fix\$3))	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:32
S52	6	S48 ( (free ) same (pin \$3 or fix\$3))	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:32
S53	327	((nano adj (porous or pore)) or nano\$por\$3 or nanopor\$3) magnet \$3 tunnel\$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:34
S54	19	S53 ( (free ) same (pin \$3 or fix\$3))	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:34
S55	13	S54 not S51	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/08 16:34
S57	327	((nano adj (porous or pore)) or nano\$por\$3 or nanopor\$3) magnet \$3 tunnel\$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:35
S60	5119	(porous or pore) magnet\$3 tunnel\$3	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:36

S61	1363	S60 ( (free ) same (pin \$3 or fix\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:36
S62	19	S57 ( (free ) same (pin \$3 or fix\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:36
S63	4	(porous or pore) (magnet\$3 same tunnel \$3) S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:37
S65	28	magnet\$3 ((porous or pore) same tunnel\$3) S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:37
S66	118	(porous or pore) (magnet\$3 same tunnel \$3) S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/08 16:37

### EAST Search History (Interference)

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